FE Label MPG Calculations For Electric Vehicles (with Voluntarily lowered/increased values)

Please Enter: (Uses 2017 and later model year derived 5-cycle coefficients (for reference calculations only) from EPA Guidance letter CD-15-15, June 22, 2015) Model Year: 2023 Manufacturer Name TYX Values in Yellow fill are normally used on FE Labels (window stickers) bZ4X AWD January 19, 2022 Model Name Values in Blue fill are voluntarily decreased/increased values D. Good 1/25/2022, 9/28/2021 Test Date: Enter the EPA approved 5-cycle Adjustment Factor per SAE J1634 (July 2017): 0.700 - (round to 5 decimal places) (Enter 0.70 if not using the SAE J1634 5-cycle method) (Orange background = too many decimal places) I. Calculate Electric vehicle FE Label city, Hwy, Combined FE values using the SAE J1634 5-cycle Adjustment Factor or the 0.7 Adjustment Factor: Enter unadjusted kW-hr/100mi Values (in red text blocks) rounded to 5 decimal places as determined from SAE J1634: -----Unadjusted Values-Highway Combined ----Adjusted Valuesto 0.1mpg) 0.1mpg) unadjusted Units City Hwy Combined Units Calculate derived 5-cycle mpg: 91.8 80.6 86.4 mpg for EPA (reference only) unrounded kW-hr/100 mi* 21.6825 kW-hr/100 mi convert back to kW-hr/100 mi: 36.7 41.8 39.0 kW-hr/100 mi - Derived 5-cycle (EPA--for reference only) 155.4526 mpg Percent adjustment (D5C) mpg: 42.6% 44.4% percent for EPA (reference only) Flect veh FF converted to mpa 46.1% *Round to Input kW-hr/100 mi values to 5 decimal places MPG w/SAE J1634 (5-cycle) or 0.7 Adjustment Factor: 108.8168 MPG (5-cycle method) 119 2800 98 2800 34.2949 (Orange background = too many decimal places) convert back to kW-hr/100 mi: 28.2570 30.9741 kW-hr/100 mi (5-cycle method) 2023MY Label Values: Rounded MPG Using SAE J1634 (5-cycle) or 0.7 Adjustment Factor: nded kW-hr/100 mi Using SAE J1634 (5-cycle) or 0.7 Adjustment Factor Voluntarily Reduced MPG values shown on Label Enter only voluntarily reduced combined MPG (or leave blank); Voluntarily Increased kW-hr/100 mi values (other values are automatically calculated) II. Calculate the adjusted electric vehicle driving ranges using the SAE J1634 5-cycle Adjustment Factor or the 0.7 Adjustment Factor: Enter unadjusted City & Hwy Range Values in miles (in red text blocks) as determined from SAE J1634: Hwy Range Range Units Method: City Range Unadjusted (SAE J1634) Calculate unadjusted combined driving range*: 336.8865 miles Calculate adjusted driving range (2017 D5C method, No Cap): 187.2403 miles Adjusted driving range (derived 5-cycle method, No Cap) calculated for reference only Calculate adjusted driving range (5-cycle or 0.7 Adj Factor): 256.1 211.0 235.820 (Adjusted driving range using 5-cycle or 0.7 Adjustment Factor) miles 247.6 204.0 228. miles Enter Voluntary Reduced (Combined) Range Value shown on label *Round input city and hwy range values to 3 decimal places (Orange background = too many decimal places) III. Calculate Electric vehicle annual fuel cost and 5-year savings, per 40 CFR 600.311-12(e) 2017 and later model year MPG Factors: ref. 40 CFR 600.210-08 and CD-15-15 (June 22, 2015) Enter Average 2023MY 5-year Fuel Cost Enter 2023MY U.S. average electricity cost kw-hr (2 decimal places) (from CD-2022-01 for 2023 model year) City Slope: 1.1601 0.003191 2023 Label 2023 Label Hwy Intercept: Calculate unrounded adjusted combined miles/kw-hr: 3 125 mi/kw-hr Hwy Slope: 1.2945 Rounded 5-year Unrounded Annual Amount Petroleum Equivalency Factor for FE Labels; Annual Miles Cost Units Annual Fuel Cost* Method Fuel Cost You Save ref. 40 CFR 600.002 "Gasoline gallon equivalent" definition 15.000 \$0.14 per kw-hr \$819.00 Derived 5-cycle method, No Cap (for reference only) \$800.0 \$4,000 15,000 \$0.14 (Using SAE J1634 5-cycle or 0.7 Adjustment Factor) \$650.0 \$4,750 33,705 watt-hr/gallon *Note: Annual fuel costs should be ASTM rounded to the nearest \$50. **Note: These values are used on the window stickers. (They may be different from the www.fueleconomy.gov values. because www.fueleconomy.gov uses a floating fuel cost).